

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

Cont. #

C-M#

3217

043043-0359294

Fat Reducing Antibody

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Applicant: Heinz Peter Vollmers

Appln. No.: 10/578,856

Filing Date: July 18, 2006

Date: October 22, 2009

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Examiner: Saoud, Christine J.

Art Unit: 1647

## **U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	2005/0123571 A1	06/2005	Rossini, et al.			
	BR	5,610,280	03/1997	Brandt, et al.			
	CR	5,639,863	06/1997	Dan			
	DR	5,763,224	06/1998	Caras, et al.			
	ER	6,677,442 B1	1/2004	Wang, et al.			
	FR	6,995,240 B1	02/2006	Panayi, et al.			
	GR	7,049,132 B1	05/2006	Lee			

## **FOREIGN PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
							Enclosed	No	Enclosed	No
	HR	41 07 154 A1	04/1992	DE	Brandt, et al. (German)					
	IR	102 30 516 A1	01/2004	DE	Müller-Hermelink, et al.					
	JR	692 12 671 T2	03/1997	DE	Weiss, et al. (German)					
	KR	692 29 110 T2	11/1999	DE	Gram, et al. (German)					
	LR	695 27 975 T2	03/2003	DE	Ellis, et al. (German)					
	MR	1 106 183 A2	06/2001	EP	Fendly					
	NR	1 141 019 B1	04/2004	EP	Vollmers et al. (German)					
	OR	00/012562	03/2000	WO	Adams, et al.					
	PR	00/37489 A3	06/2000	WO	Vollmers et al. (German)					
	QR	00/37489A2	06/2000	WO	Vollmers et al. (German)					
	RR	01/62932 A1	08/2001	WO	Deshpande, et al.					
	SR	01/83560 A1	11/2001	WO	Zhou, et al.					
	TR	02/02641 A1	01/2002	WO	Cambridge Antibody Tech., Vaughn Tristan					
	UR	02/084277 A1	10/2002	WO	Luo					
	VR	02/12502 A2	02/2002	WO	Giles-Komar, et al.					
	WR	03/011907 A3	02/2003	WO	Mueller-Hermelink et al.					
	XR	2003/076472 A2	09/2003	WO	Vollmers, et al.					

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U.S. PATENT DOCUMENTS							
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	YR						
	ZR						
	AAR						
	BBR						

FOREIGN PATENT DOCUMENTS							English Abstract		Translation Readily Available	
Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name		Enclosed	No	Enclosed	No
	CCR	2003/076472 A3	09/2003	WO	Vollmers, et al.					
	DDR	2004/005351 A2	01/2004	WO	Mueller-Hermelink, et al.					
	EER	2004/020999A1	03/2004	WO	Arap, et al.					
	FFR	2004/081027 A2	09/2004	WO	Mueller-Hermelink et al.					
	GGR	2004/081027 A3	09/2004	WO	Mueller-Hermelink et al.					
	HHR	2005/001052 A2	01/2005	WO	Rossini, et al.					
	IIR	2005/045428 A2	05/2005	WO	Lee, et al.					
	JJR	2005/047332 A1	05/2005	WO	Vollmers, et al.					
	KKR	2005/065418 A2	07/2005	WO	Pasqualini, et al.					
	LLR	2005/085862 A1	09/2005	WO	Charles, et al.					
	MMR	2005/092922 A2	10/2005	WO	Vollmers et al.					
	NNR	2005/092922 A3	10/2005	WO	Vollmers et al.					
	OOR	2005/094159 A2	10/2005	WO	Vollmers et al.					
	PPR	97/02479	01/1997	WO	Garen					
	QQR	97/13844 A1	04/1997	WO	Thomson et al.					
	RRR	99/28461	06/1999	WO	Noteborn, et al. (equivalent to CA 2,312,007 06/2000)					
	SSR	99/53051	10/1999	WO	Dumas Milne Edwards et al.					
	TTR	99/65935 A2	12/1999	WO	Chiodi					
	UUR	2005/047332A1	05/2005	WO	Vollmers, et al.					

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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner's

Initials\*

English

Abstract

Translation

Readily  
Available

Enclosed

No

Enclosed

No

VVR

Berger, C.L., et al., A Lymphocyte Cell Surface Heat Shock Protein Homologous to the Endoplasmic Reticulum Chaperone, Immunoglobulin Heavy Chain Binding Protein BIP, Int. J. Cancer, 71:1077-1085 (1997)

WWR

Bjorge et al., Complement-Regulatory Proteins in Ovarian Malignancies, Int. J. Cancer, 70:14-25 (1997)

XXR

Brandlein et al., "Natural IgM Antibodies and Immunosurveillance Mechanisms Against Epithelial Cancer Cells in Humans," Cancer Research, 63: 7995-8005, 15 November 2003.

YYR

Brandlein et al., Characterization of Five New Fully Human Monoclonal IgM Antibodies Isolated from Carcinoma Patients, Proceedings of the Annual Meeting of the American Association for Cancer Research 43:970, March 2002 (Abstract)

ZZR

Brandlein et al., Human Monoclonal IgM Antibodies with Apoptotic Activity isolated from Cancer Patients, Human Antibodies 11:107-119, 2002

AAAR

Brandlein, S., et al., CFR-1 Receptor as Target for Tumor-specific Apoptosis Induced by the Natural Human Monoclonal Antibody PAM-1, Oncology Reports, 11:777-784 (2004)

BBBR

Brandlein, S., et al., Cysteine-rich Fibroblast Growth Factor Receptor 1, a New Marker for Precancerous Epithelial Lesions Defined by the Human Monoclonal Antibody PAM-1, Cancer Research, 63:2052-2061 (2003)

CCCR

Brandlein, S., et al., PAM-1, a Natural Human IgM Antibody as New Tool for Detection of Breast and Prostate Precursors, Human Antibodies, 13:97-104 (2004)

DDDR

Chen, G., et al., Protein Profiles Associated With Survival in Lung Adenocarcinoma, [www.pnas.org/cgi/doi/10.1073/pnas.2233850100](http://www.pnas.org/cgi/doi/10.1073/pnas.2233850100) pp. 1-6 (2003)

EEER

Database entry AAB02178 dated June 11, 1996

FFFR

Faller et al., HAB-1, a New Heteromyeloma for Continuous Production of Human Monoclonal Antibodies, Br. J. Cancer 62:595-598 (1990)

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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)		English Abstract		Translation Readily Available	
Examiner's Initials*		Enclosed	No	Enclosed	No
GGGR	Gonatas et al., MG-160, A Membrane Sialoglycoprotein of the Medial Cisternae of the Rat Golgi Apparatus, Binds Basic Fibroblast Growth Factor and Exhibits a High level of Sequence Identity to a Chicken Fibroblast Growth Factor Receptor, J. Cell Science 108:457-467, 1995.				
HHHR	Grossman, H.B., Natural Antibody to a Human Bladder Carcinoma Cell Line, Cancer Immunol. Immunother. 13:89-92 (1982)				
IIIR	Hensel et al., A New Variant of Cystein-Rich FGF Receptor (CFR-1) Specifically Expressed on Tumor Cells, Proceedings of the American Association for Cancer Research 41:698 (abstract 4438), March 2000.				
JJJR	Hensel et al., A Novel Proliferation-associated Variant of CFR-1 Defined by a Human Monoclonal Antibody, Laboratory Investigation 81:1097-1108, 2001.				
KKKR	Hensel et al., Characterization of Glycosylphosphatidylinositol-linked Molecule CD55/Decay-accelerating Factor as the Receptor for Antibody SC-1-induced Apoptosis, Cancer Research 59:5299-5306, 1999.				
LLLLR	Hensel et al., Mitogenic Autoantibodies in Helicobacter pylori-Associated Stomach Cancerogenesis, International Journal of Cancer 81:229-235, 1999.				
MMMR	Hensel, F., et al., "Regulation of the new coexpressed CD55 (decay-accelerating factor) receptor on stomach carcinoma cells involved in antibody SC-1-induced apoptosis", Laboratory Investigation, 81(11):1553-1563 (2001)				
NNNR	Huang et al., Sulindac Sulfide-induced Apoptosis Involves Death Receptor 5 and the Caspase 8-dependent Pathway in Human Colon and Prostate Cancer Cells, Cancer Research 61:6918-6924 (2001)				
OOOR	Iwadate, Y., et al., Molecular Classification and Survival Prediction in Human Gliomas Based on Proteome Analysis, Cancer Research, 64:2496-2501 (2004)				
PPPR	Jamora, C., et al., Inhibition of Tumor Progression by Suppression of Stress Protein GRP78/BiP Induction in Fibrosarcoma B/C10ME, Proc. Natl. Acad. Sci. USA, 93:7690-7694 (1996)				
QQQR	Jansson, et al., The Human Repertoire of Antibody Specificities Against Thomsen-Friedenreich and TN-carcinoma-associated antigens as defined by Monoclonal Antibodies, Cancer Immunology 34:294-298, 1992.				
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Examiner's Initials*		Enclosed	No	Enclosed	No
RRRR	Kamitani, H., et al., Expression of 15-Lipoxygenase by Human Colorectal Carcinoma Caco-2 Cells During Apoptosis and Cell Differentiation, The Journal of Biological Chemistry, 273(34):21569-21577 (1998)				
SSSR	Lee, A.S., Mammalian Stress Response: Induction of the Glucose-Regulated Protein Family, Current Opinion in Cell Biology, 4:267-273 (1992)				
TTTR	Little, E., et al., The Glucose-Regulated Proteins (GRP78 and GRP94): Functions, Gene Regulation, and Applications, Critical Reviews In Eukaryonic Gene Expression, 4(1):1-18 (1994)				
UUUR	Liu et al., Towards Proteome-Wide Production of Monoclonal Antibody by Phage Display, J. Mol. Bio. 315:1063-1073 (2002)				
VVVR	Mammalian Gene Collection (MGC) Program Team, "Generation and Initial Analysis of more than 15,000 Full-Length Human and Mouse cDNA Sequences" PNAS USA 99:16,899-16,903 (2002)				
WWWI	Masatoshi, K., Antibody CDNA, Abstract JP Publication No. 09098786 0, 04/15/1997				
XXXR	Mintz, P.J., et al., Fingerprinting the Circulating Repertoire of Antibodies from Cancer Patients, Nature Biotechnology, 21:57-63 (2003)				
YYR	Misra, U.K., et al., The Role of Grp 78 in $\alpha_2$ -Macroglobulin-Induced Signal Transduction, The Journal of Biological Chemistry, 277(44):42082-42087 (2002)				
ZZR	Mourelatos et al., Cloning and Sequence Analysis of the Human MG160, a Fibroblast Growth Factor and E-Selectin Binding Membrane Sialoglycoprotein of the Golgi Apparatus, DNA Cell Biol. 12:1121-1128 (1996)				
AAAA	Myung, J-K, et al., Expressional Patterns of Chaperones in Ten Human Tumor Cell Lines, Proteome Science, 2:8:1-21 (2004)				
BBBB	Pfaff, M., et al., Human Monoclonal Antibody Against a Tissue Polypeptide Antigen-related Protein from a Patient with a Signet-Ring Cell Carcinoma of the Stomach, Cancer Research, 50:5192-5198 (1990)				
CCCC	Pohle et al., Lipoptosis: Tumor Specific Cell Death by Antibody-Induced Intracellular Lipid Accumulation, Cancer Research, 64:11, 3900-3906 (2004)				

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Examiner's Initials*		Enclosed	No	Enclosed	No
DDDD	Sato, K., et al., Immunotherapy Using Heat-Shock Protein Preparations of Leukemia Cells After Syngenic Bone Marrow Transplantation in Mice, Blood, 98(6):1852-1857 (2001)				
EEEE	Sugawara, S., et al., Suppression of Stress Protein GRP78 Induction in Tumor B/C10ME Eliminates Resistance to Cell Mediated Cytotoxicity, Cancer Research, 53:6001-6005 (1993)				
FFFF	Timmermann W., et al., Immuntherapie: ein Antikörper gegen Magenkrebs" Blick 1/1999, Artikel 6, internet page <a href="http://www.uni-wuerzburg.de/blick1999-1/991do6-t.html">http://www.uni-wuerzburg.de/blick1999-1/991do6-t.html</a> .				
GGGG	Vollmers et al., "Apoptosis of Stomach Carcinoma Cells Induced by a Human Monoclonal Antibody," Cancer 76:550-558 (1995).				
HHHH	Vollmers et al., "Human Monoclonal Antibodies from Stomach Carcinoma Patients React with <i>Helicobacter pylori</i> and Stimulate Stomach Cells <i>in vitro</i> ," Cancer 74:1525-1532, 1994.				
IIIR	Vollmers et al., "SC-1, a Functional Human Monoclonal Antibody against Autologous Stomach Carcinoma Cells," Cancer Res. 49:2471-2476, 1989.				
JJJR	Vollmers et al., Adjuvant Therapy for Gastric Adenocarcinoma with the Apoptosis-Inducing Human Monoclonal Antibody SC-1: First Clinical and Histopathological Results, Oncology Reports 5:549-552 (1998)				
KKKK	Vollmers, H.P., et al., Monoclonal Antibodies NORM-1 and NORM-2 Induce More Normal Behavior of Tumor Cells In Vitro and Reduce Tumor Growth In Vivo, Cell, 40:547-557 (1985).				
LLLL	Vollmers, P., et al., Tumor-Specific Apoptosis Induced by the Human Monoclonal Antibody SC-1: A New Therapeutical Approach for Stomach Cancer, Oncology Reports, 5:35-40 (1998)				
MMMM	Wixler et al., "Identification of Novel Interaction Partners for the conserved membrane proximal region of alpha-integrin cytoplasmic domains," FEBS Letters vol. 445, 26 Feb 1999.				
NNNN	Mueller-Hermelink, et al., Application No. 10/579,290, "Adenocarcinoma Specific Antibody SAM-6, and Uses Thereof", 05/15/2006				
OOOO	Vollmers, Heinz Peter, Application No. 11/945,916, "Novel Glycosylated Peptide Target in Neoplastic Cells", 11/27/2007				
PPPP					
QQQQ					

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